
























| QUAD | SOLUTION SET | SITE | QUAD | SOLUTION SET | SITE |
|------|--|---|------|---|---|
| AD-1 | <u>Build New Runways, '03 – '09</u> |  | ER-1 | <u>Match Airspace Design to Demands</u> <u>Redesign En Route Airspace:</u> |  |
| AD-2 | <u>Use Crossing Runway Procedures, '04 – '05 or later</u> a. Implement New Crossing Runway Procedures b. Implement New Crossing Runway Procedures at Remaining Locations |  | | a. Caribbean Reroutes, '03 b. ZAN Ocean Redesign, '03 c. Interior Alaska, '04 d. Southeast Alaska, '05 e. Western Alaska, '02 f. ZMA/ZHU Gulf Reroutes, '05 g. ZLC Area Realignment, '04 h. Great Lakes Corridor, '08 i. Western Pacific En Route Bay-to-Basin, '06 j. ZDV Airspace, '03 k. ZOA/NCT Redesign, '03 l. ZTL North/South Flows, '03 m. ZSE Airspace, '04 n. ZKC East End, '04 o. High Altitude Phase 1 Initial, '03 p. High Altitude Phase 1 Expansion, '04 q. High Altitude Phase 2 Initial '05 r. ZOA Oceanic Airspace, '05 s. ZOA/ZAN Airspace, '03 t. High Altitude Redesign Phase 1 Completion, '05 u. High Altitude Redesign Phase 2 Expansion, '06 v. Expansion/Completion, '07 w. High Altitude Redesign Phase 3, '08 | |
| AD-3 | <u>Redesign Terminal Airspace and Routes</u> <u>Routes Independent From Navigation Aids:</u> a. RNAV Route Development through '04 (RNP 2) aa. ATL and GSO Runways, '05 b. RNAV Route Development '05 through '10 bb. NYICC, '08/'09 <u>Redesign Terminal Airspace:</u> c. SFO Dual CEDES, '03 d. LAX Departures, '03 e. LAX Independent Flows, '03 f. PHX Southside, '03 g. LAS North Resectorization, '03 h. NCT Internal Airspace, '03 i. SBA Expansion, '04 j. HCF Airspace, '03 k. SAN East Arrival, '03 l. Omaha Airspace, '04 m. Midwest Airspace Plan (STL), '06 n. AGL Midwest Expansion, '07 o. PCT Airspace, '03 p. NY/NJ/PHL Metropolitan Redesign, '06 q. SEA-PDX Tower En Route, '03 r. Salt Lake Four Corner Post, '03 s. Portland TRACON, '04 t. Denver South Airspace, '03 u. Anchorage Terminal, '03 v. BCT Airspace, '04 w. Houston Redesign – HAATS, '03 x. CVG Runway, '03 y. MIA 4 th Runway, '03 z. MCO 4 th Runway, '04 |  | ER-2 | <u>Collaborate to Manage Congestion</u> Nation wide '03 – '13, <u>Improved Collaboration and Communication:</u> a. S2K+N b. Information, data access and data sharing c. Traffic Management National Log (TMNL) <u>Route Management:</u> d. Re route Advisory Tool (RAT) e. Playbook f. Route Management Tool/Coded Departure Route g. Military Airspace: [ZNY, ZDC] h. Canadian Airspace: [ZAU, ZDC, ZID, ZMP, ZNY, ZOB] <u>Technology:</u> i. Enhanced Traffic Management System (ETMS) j. Traffic Situation Display (TSD) k. Flow Evaluation Area/Flow Constraint Area l. Flight Schedule Monitor Enhancements (FSM) m. Departure Spacing Program (DSP): [BOS, BWI, DCA, IAD] <u>Research and Development:</u> n. TFM Decision Support Tools Research o. Integrated Traffic Flow Management (ITFM) p. Traffic Flow Management Modernization (TFM-M) q. System Integration |  |
| AD-4 | <u>Fill Gaps in Arrival and Departure Streams</u> <u>Metering and Merge Planning:</u> a. TMA-SC, '03 - '07 b. TMA-MC, '03-'04 |  | | | |
| AD-6 | <u>Coordinate for Efficient Surface Movement</u> a. Surface Movement System (SMS), Trial, '03 |  | | | |

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| ER-2 | <u>Collaborate to Manage Congestion</u> r. Training: Joint/FAA Training | Nationwide '03 – '13 | AW-3 | <u>Reconfigure Airports Efficiently</u> a. ITWS, '02 –'04 |  |
| ER-3 | <u>Reduce Voice Communication</u> a. CPDLC, Build 1A, '05 b. CPDLC, National Deployment |  | AW-4 | <u>Enhance All-Weather Surface Operations</u> a. SF-21, '05 |  |
| ER-4 | <u>Reduce Vertical Separation</u> a. RVSM, (include the Gulf of Mexico)'05 b. DRVSM, '05 |  | AW-5 | <u>Maintain Optimum Runway use at Airports with CSPR</u> <u>Implement Enhanced Surveillance Capabilities:</u> Near Term: a. PRM, '05 b. PRM-SOIA Mid-Term: c. PRM-SOIA Wake Turbulence R & D: Near Term: d. Initial CSPR Implementation Mid Term: e. Implementation of Revised Separation Standards Based on CSPR Wake Turbulence Long Term: f. Construction of New Runway Enabled by CSPR Wake Standards R & D Along Track Separation Concept: Near Term g. Develop and Validate Approach Procedures |  |
| ER-6 | <u>Reduce Oceanic Separation (30/30)</u> Enhanced Surveillance in FAA Controlled Oceanic: a. ADS-A b. ATOP Build II, '04 – '05 c. 30/30 Implementation, '05 d. RNP Concept e. 30/30 Expansion |  | | | |
| ER-7 | <u>Accommodate User Preferred Routing</u> Conflict Identification and Planning: a. URET Expansion, '03 – '04 Metering and Merge Planning: b. TMA-SC, '03 –'07 c. TMA-MC, '03 Conflict Resolution and Planning Aids: d. URET CCLD, '02 –'04 |    | | | |
| AW-1 | <u>Maintain Runway Use in Reduced Visibility</u> VMC to IMC Approaches: a. New RNAV Procedures, '03 b. WAAS, '03 c. LAAS CAT I, '06 Long Term: d. RNP Parallel Approach, '03 e. LPV Procedures, '07 f. LNAV/VNAV, '04 – '10 |  | EW-1 | <u>Provide Better Hazardous Weather Data</u> Integrate Weather Forecast into Decision Support Systems (DSS): a. Route Availability Planning Tool (RAPT) b. Enhanced Traffic Management Service (ETMS) Commit to Applications and Training: c. Applying the Weather Forecast d. Training Ensure Dissemination and Display of Weather Information '03: e. WARP PPI f. Weather Display on ETMS g. Weather and Traffic Database Improve the Detection and Forecast of Hazardous Weather '03: h. Thunderstorm Impact Mitigation i. Non-Convective Turbulence and Winds Aloft Optimization j. Icing k. Weather Forecast Models l. CIWS, Trials, (03) m. ADDS n. RTVS o. CIP p. RUC |  Nationwide '03 |
| AW-2 | <u>Space Closer to Visual Standards</u> a. CDTI Enhanced Visual Approach (CEFR), '03 b. CDTI, '03 |  | | | |
| <div> <div>Key:</div> <div>  Airport  TRACON  Center  Air Route </div> </div> | | | | | |